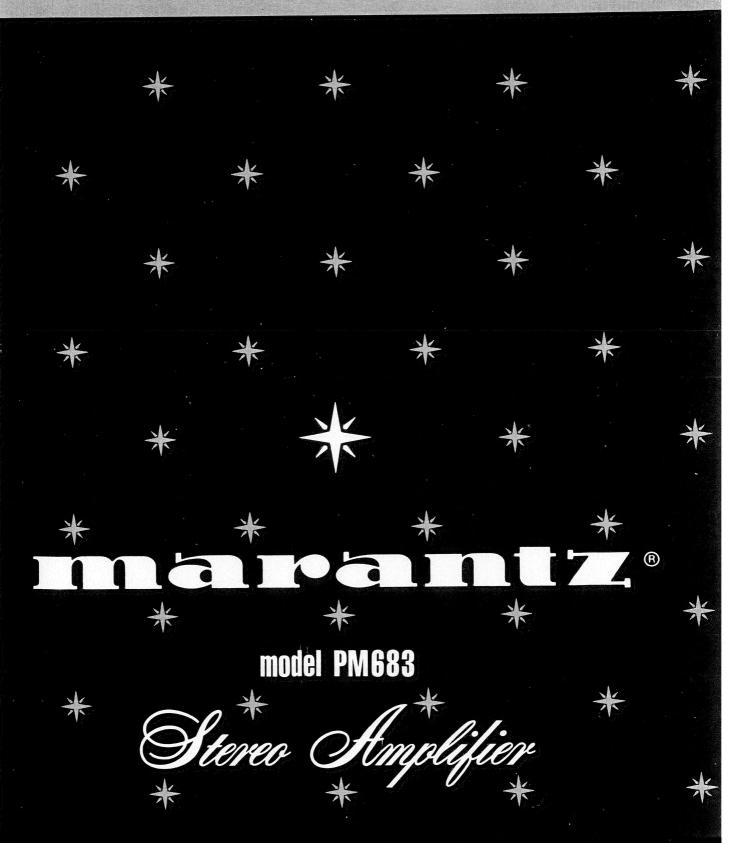
SERVICE MANUAL

PM683

4822 725 50877



MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, correct part number has to be specified. The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address
- 2. Complete part numbers and quantities required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
- 6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

MARANTZ INTERNATIONAL

Vestdijk 9

5600 MD Eindhoven The Netherlands

Phone: +31/40.758290 Telefax: +31/40.75.82.99

Telex: 35000 PHTC NL routing IND NLMTFAT

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA

HORNYPHON Vertriebsgesellschaft GmbH

Wienerbergstrasse 1 A 1101 Wien

Austria Telex: 132.332

BELGIUM

SVD DIVISION MARANTZ Industrialaan 1 1720 Groot-Bijgaarden

Belgium Telex: 24466

CHILE

MARANTZ

DIVISION OF PHILIPS S.A. AV. Santa Maria, 0760 Casilla 2687

Santiago Telex: 240.239

DENMARK

MARANTZ DIVISION OF PHILIPS SERVICE A/S Prags Boulevard 80 Postbox 1919 DK-2300 København S

Denmark Telex: 31201 FINLAND MARANTZ

DIVISION OF OY PHILIPS Ab

Kaivokatu 8 00100 Helsinki Finland

Telex: 124811

FRANCE

MARANTZ FRANCE 4 Rue Bernard Palissy 92600 Asnières France Telex: 611651

GERMANY

MARANTZ GERMANY GmbH Max-Planck-Strasse 22

6072 Dreieich 1 Germany Telex: 529821

THE NETHERLANDS

Elpro Marantz Wint Hontlaan 28 3526 KV Utrecht The Netherlands Telex: 4748

NORWAY

MARANTZ DIVISION OF PHILIPS A/S Sandstuveien 40

0680 Oslo 6 Norway Telex: 72640 **GREAT BRITAIN**

MARANTZ AUDIO U.K. Ltd Unit 15/16 Saxon Way Industrial Estate Moor Lane

Harmondsworth UB7 OLW Great Britain

Telex: 935196

GREECE

SHERTON ELECTRONICS S.A. P.O.Box 21025 Hippocratus Street 188 Athens 11471

Greece Telex: 216.795

MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa

KUWAIT

AL ALAMIAH ELECTRONICS Ussama Building Fahd al Saleem Street P.O.Box 23781 Safat-Kuwait Telex: 22694

MARANTZ ITALIANA S.P.A. Via Chiese, 74 20126 Milano Italy

SAUDI ARABIA

AL ALAMIAH ELECTRONICS P.O.Box 5954 University Street Riyadh 11432 Saudi Arabia Telex: 401530

SOUTH AFRICA

MARANTZ DIVISION OF PHILIPS S.A. Main Road Martindale P.O. Box. 58088 Newville 21114 South Africa

SPAIN

PHONO S.A. Ignacio Iglesias 10 Badalona (Barcelona)

Telex: 59355

SWEDEN MARANTZ **DIVISION OF PHILIPS** Försäljning AB Tegeluddsvägen 1 S-115 84 Stockholm Sweden Telex: 14060

SWITZERLAND DYNAVOX ELECTRONICS

Route de Villars 105 1701 Fribourg Switzerland Telex: 942377

TURKEY DOGRUOL Ltd.

6 Blok N°6310 Unkapani Istanbul Turkey Telex: 22085

MALTA

CACHIA & GALEA Republic Street, 68D Valetta

Telex: 1682

PORTUGAL MARANTZ

Divisao philips S.A. service Outurela-carnaxide 2795 LinDA-A-VELHA Telex: 43906

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

> In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

1. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM683 Stereo Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
ACVTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DCVTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0 to 140V AC, 10A)	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

2. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM683 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

	1. Relay	mounted on P.W. Board PA14
	2. Connector	mounted on P.W. Board PJ14
	3. Video Amp	mounted on P.W. Board PL04
	4. Pin Jack/Switch	mounted on P.W. Board PL14
	5. R.G.B. Connector	mounted on P.W. Board PL24
	6. Selector	mounted on P.W. Board PS04
	7. REC Selector	mounted on P.W. Board PS34
	8. Speaker Switch	mounted on P.W. Board PS44
	9. Function-1	mounted on P.W. Board PS84
1		mounted on P.W. Board PT04
		mounted on P.W. Board PU04
		mounted on P.W. Board PU16
1	13. Tact Switch	mounted on P.W. Board PU2
		mounted on P.W. Board PU3
		mounted on P.W. Board P604
	16. Power Amp Driver	mounted on P.W. Board P704
1	17. Transistor (DOLBY)	mounted on P.W. Board P714
	18. Transistor (DOLBY)	mounted on P.W. Board P724
	19. Transistor (DOLBY)	mounted on P.W. Board P734
	20. Power Amp/Supply	mounted on P.W. Board P754
	21. Regulator	
	22. Regulator	mounted on P.W. Board P803
•		

3. ADJUSTMENT PROCEDURES

Adjustment of Main Amp Idling Current

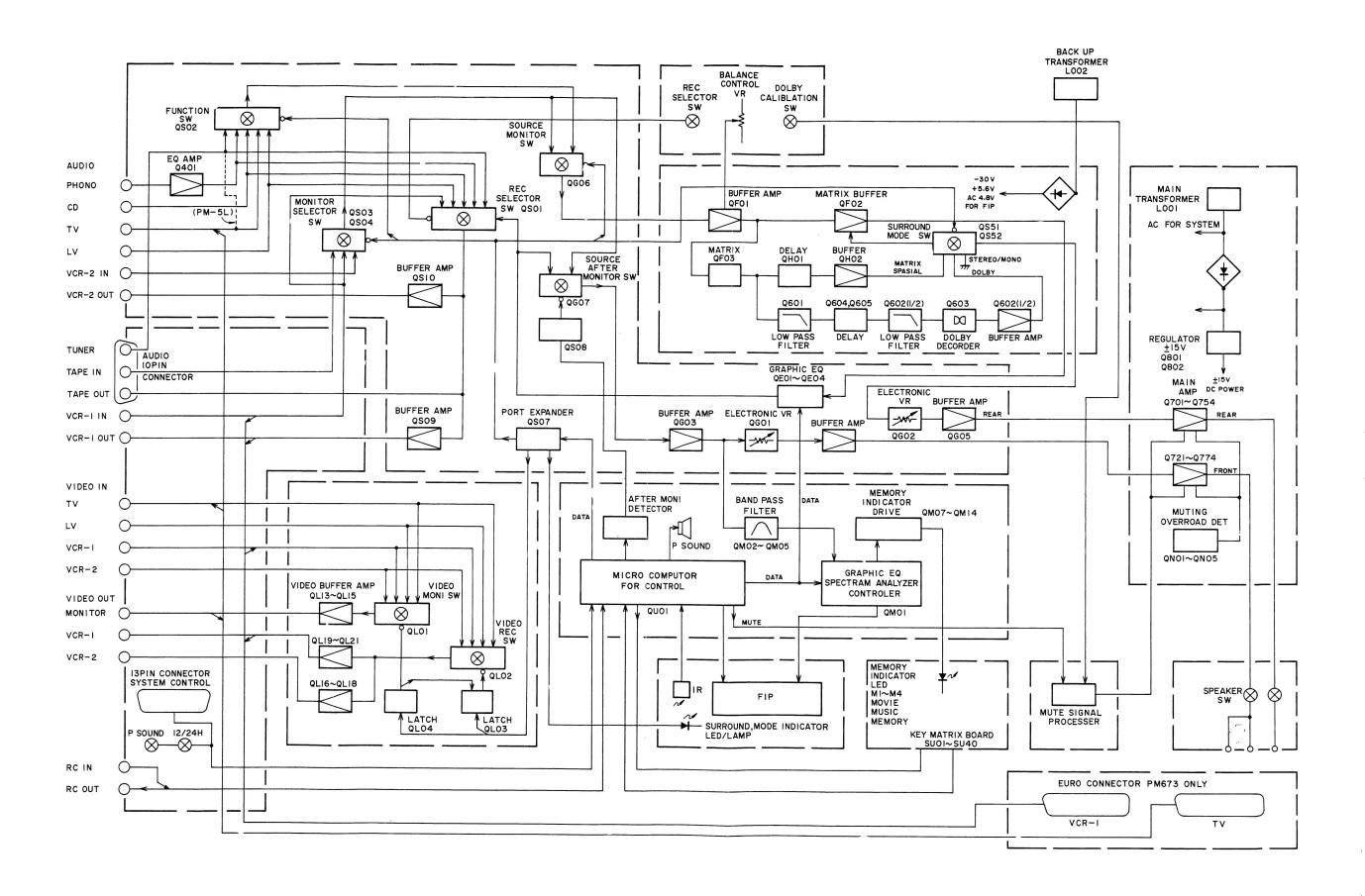
Connect a digital voltmeter to the R755, R756, and R776 emitter resistor adjustment terminals, turn the power on, then adjust variable resistors R711, R712, and R731 when the power becomes stable so that the reading on the voltmeter is between 1 mV and 1.5 mV.

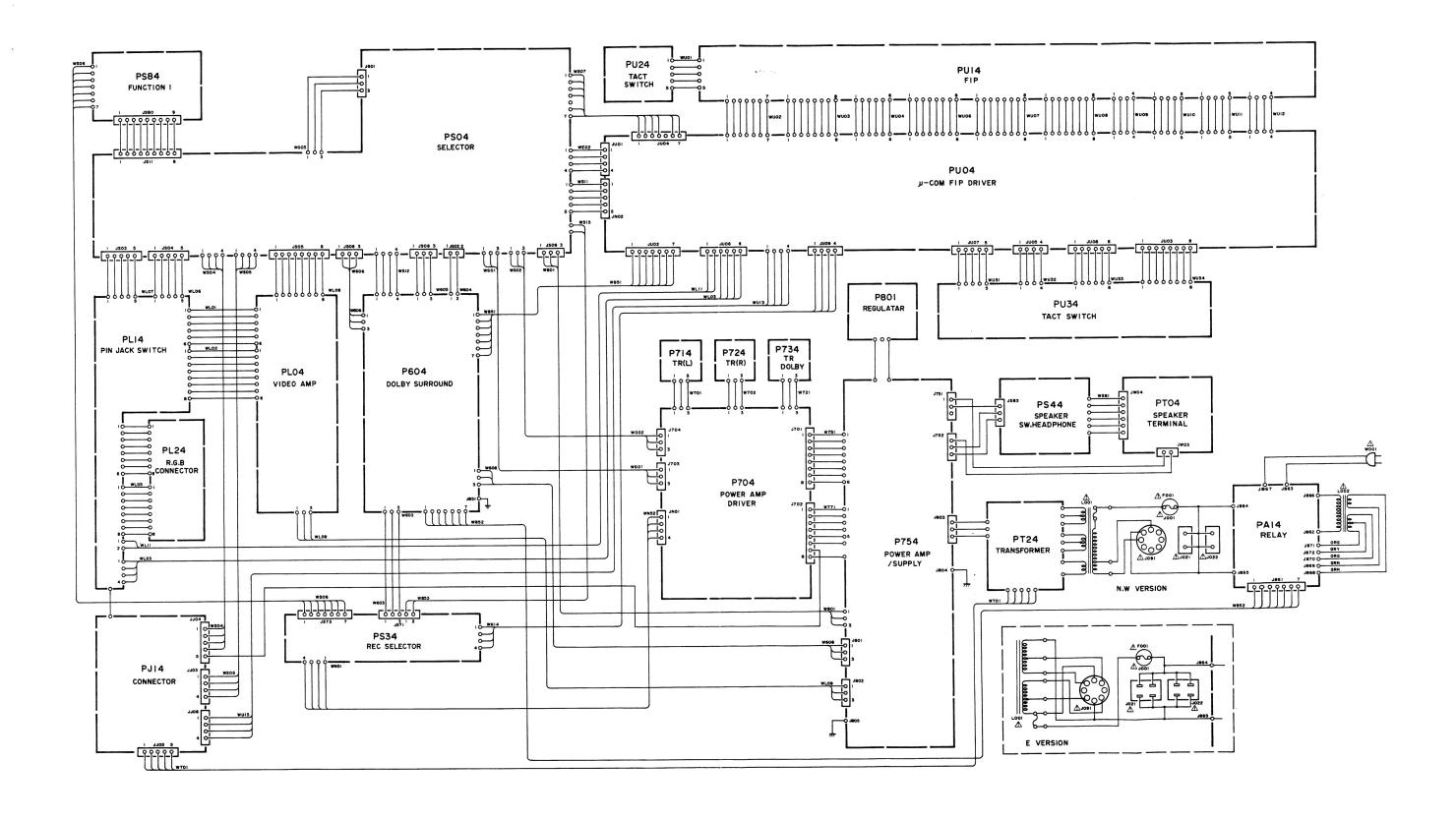
Adjustment of Dolby Surround Output Distortion

Input 1 kHz to the L or R input terminals, set the mode switch to Dolby Surround, increase the input for a voltage of 1.6 V at the test point (J601), then adjust variable resistor R630 so that the distortion is minimum.

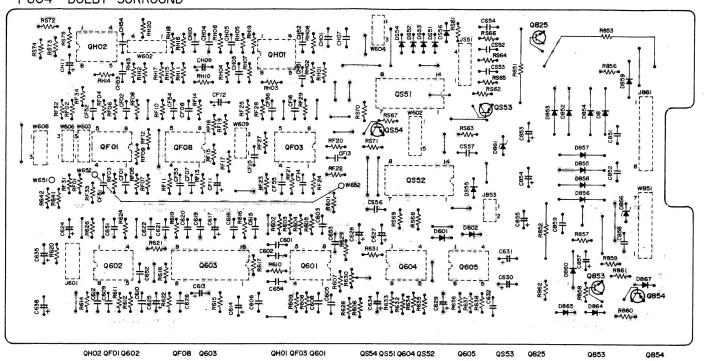
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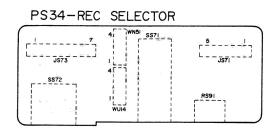
MZ 2150

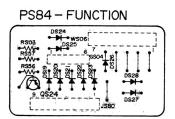


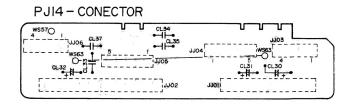


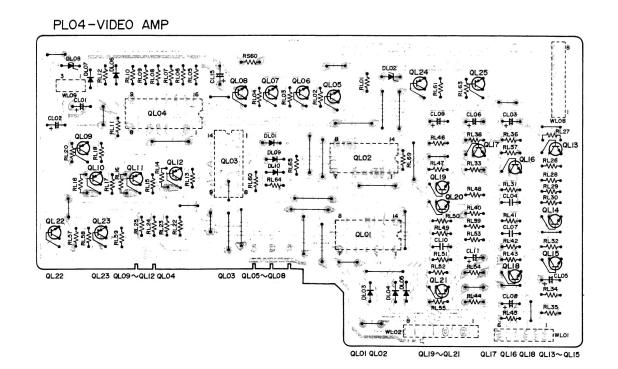


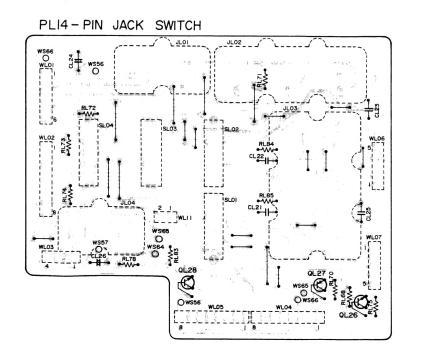


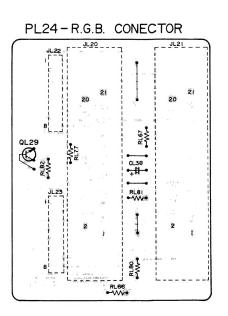


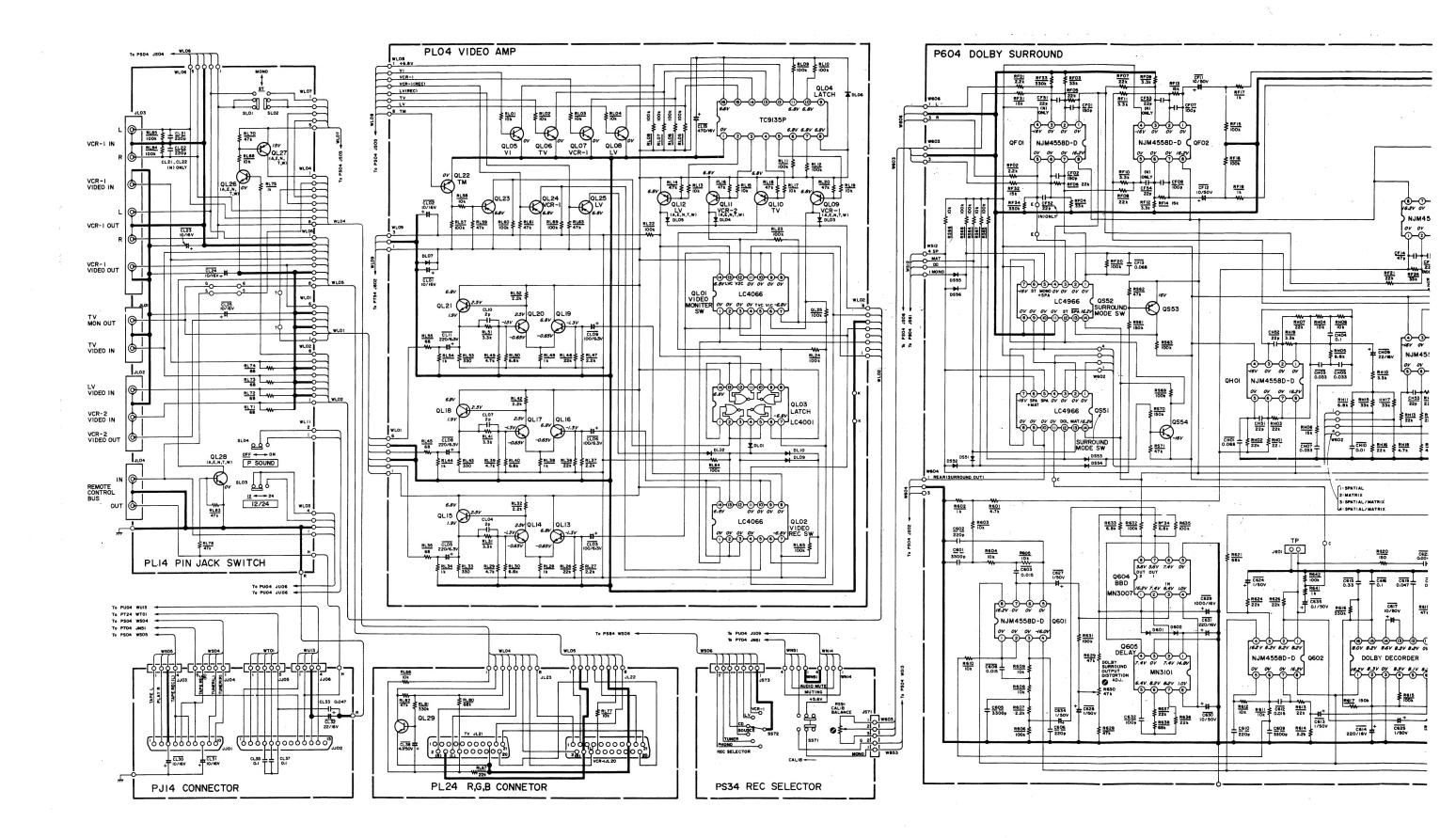


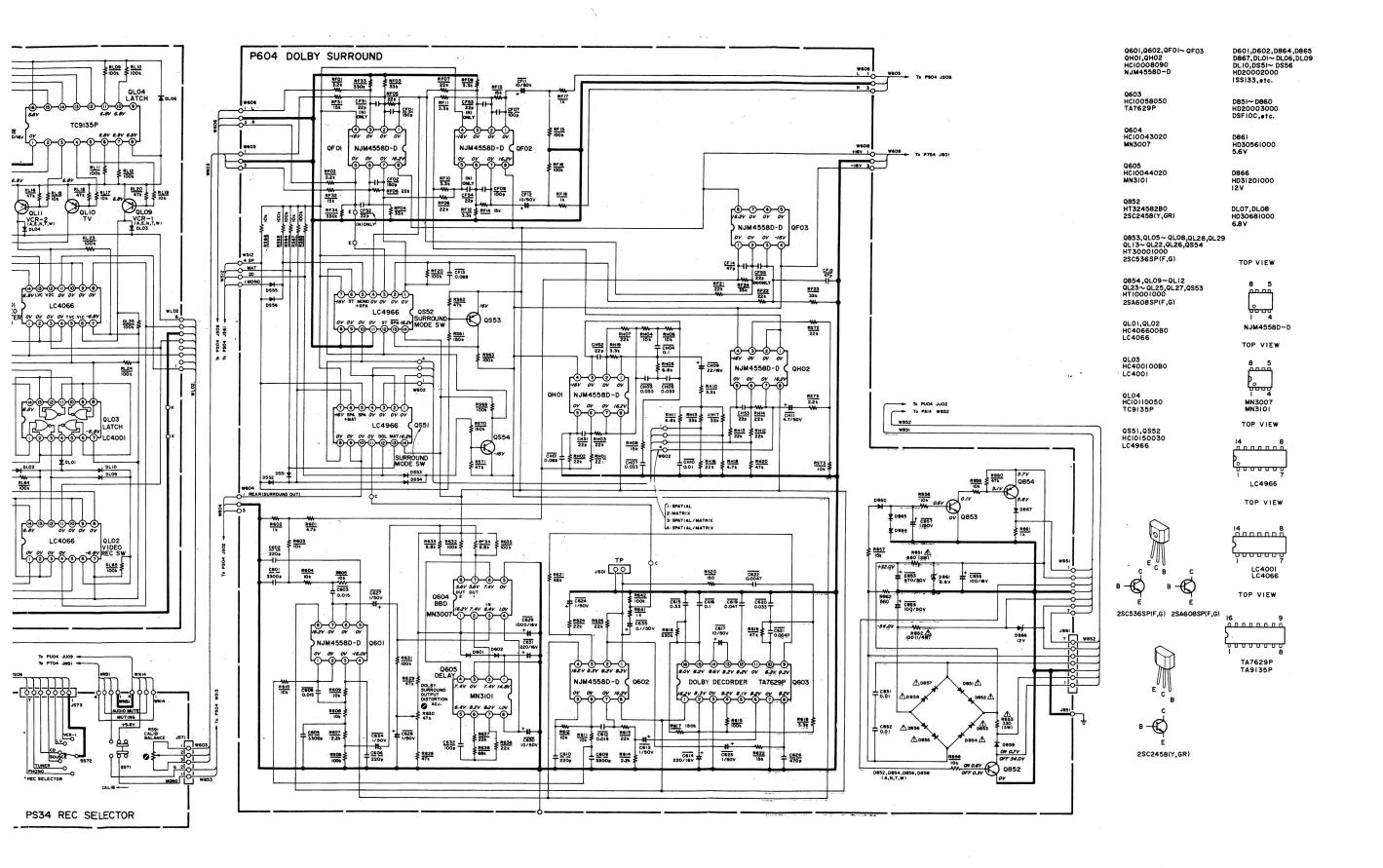


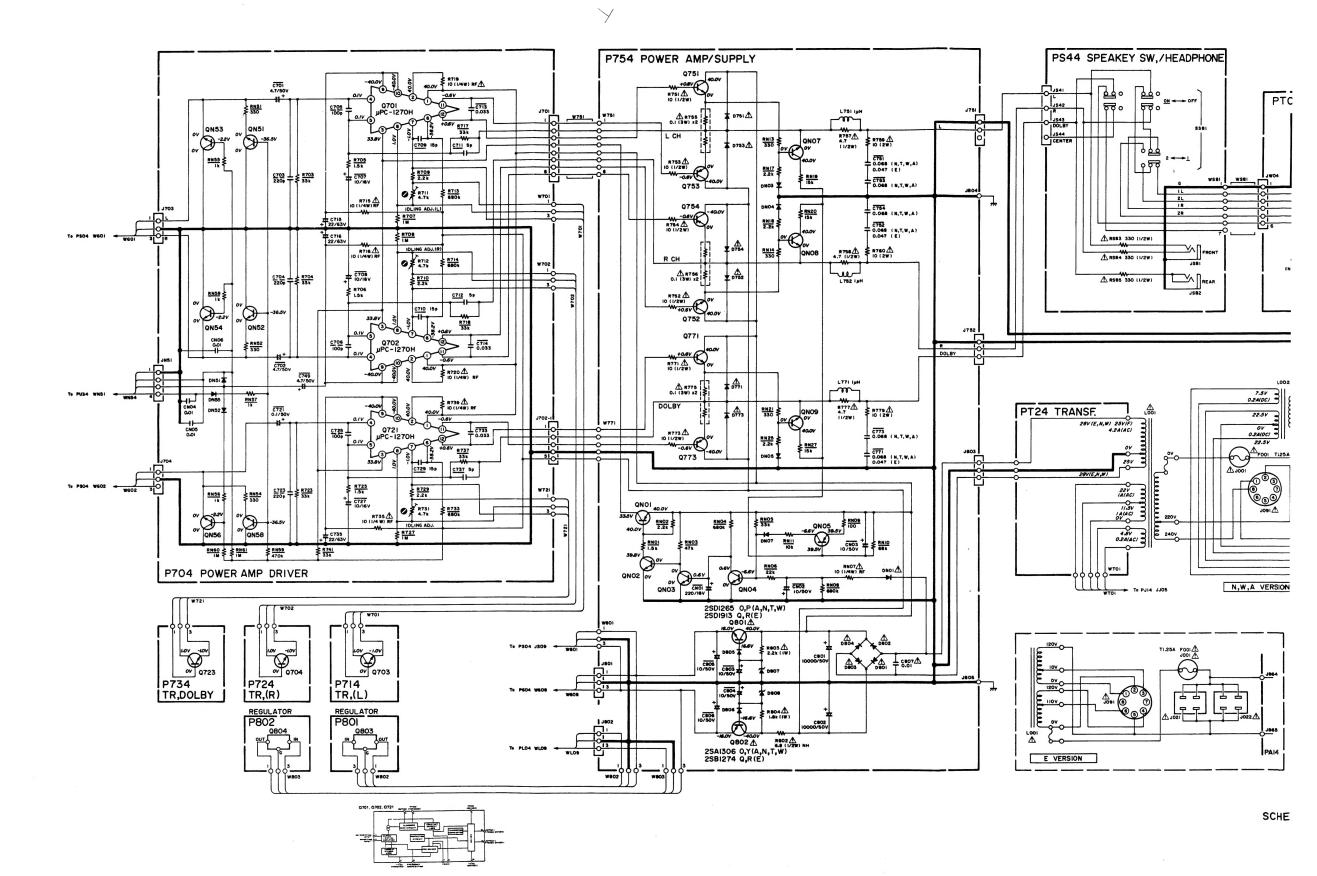


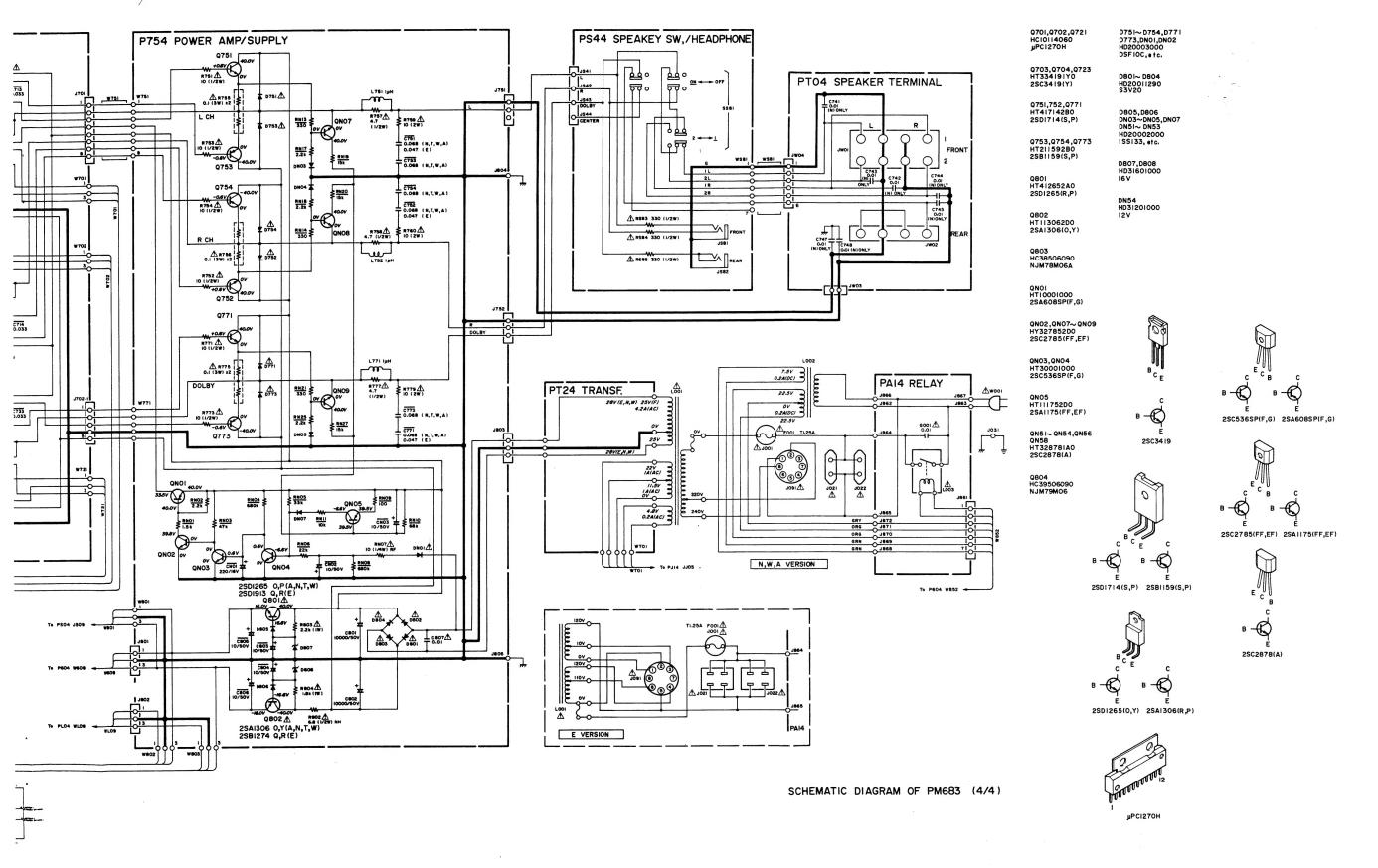


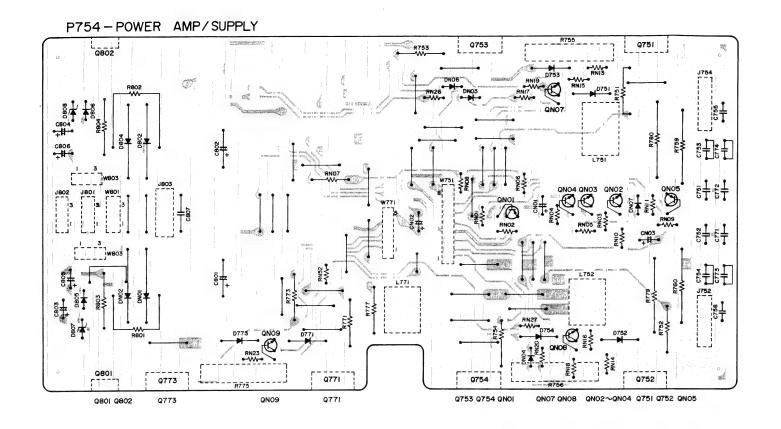


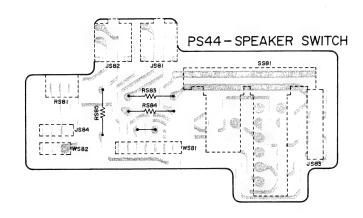


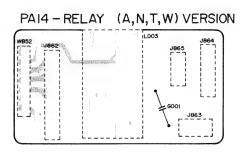


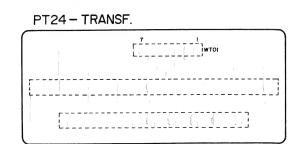


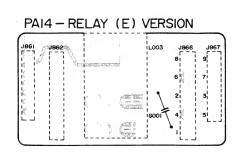


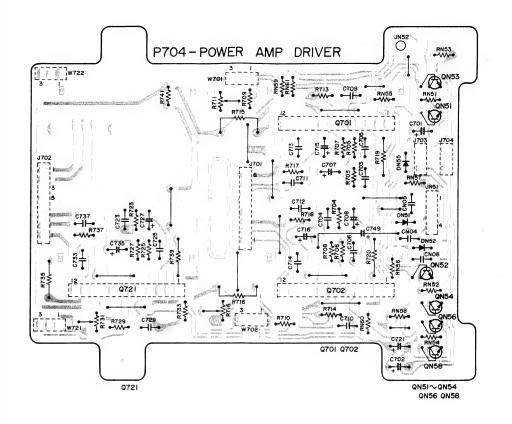


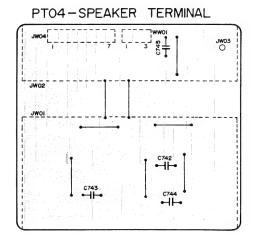


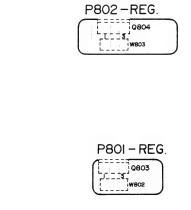










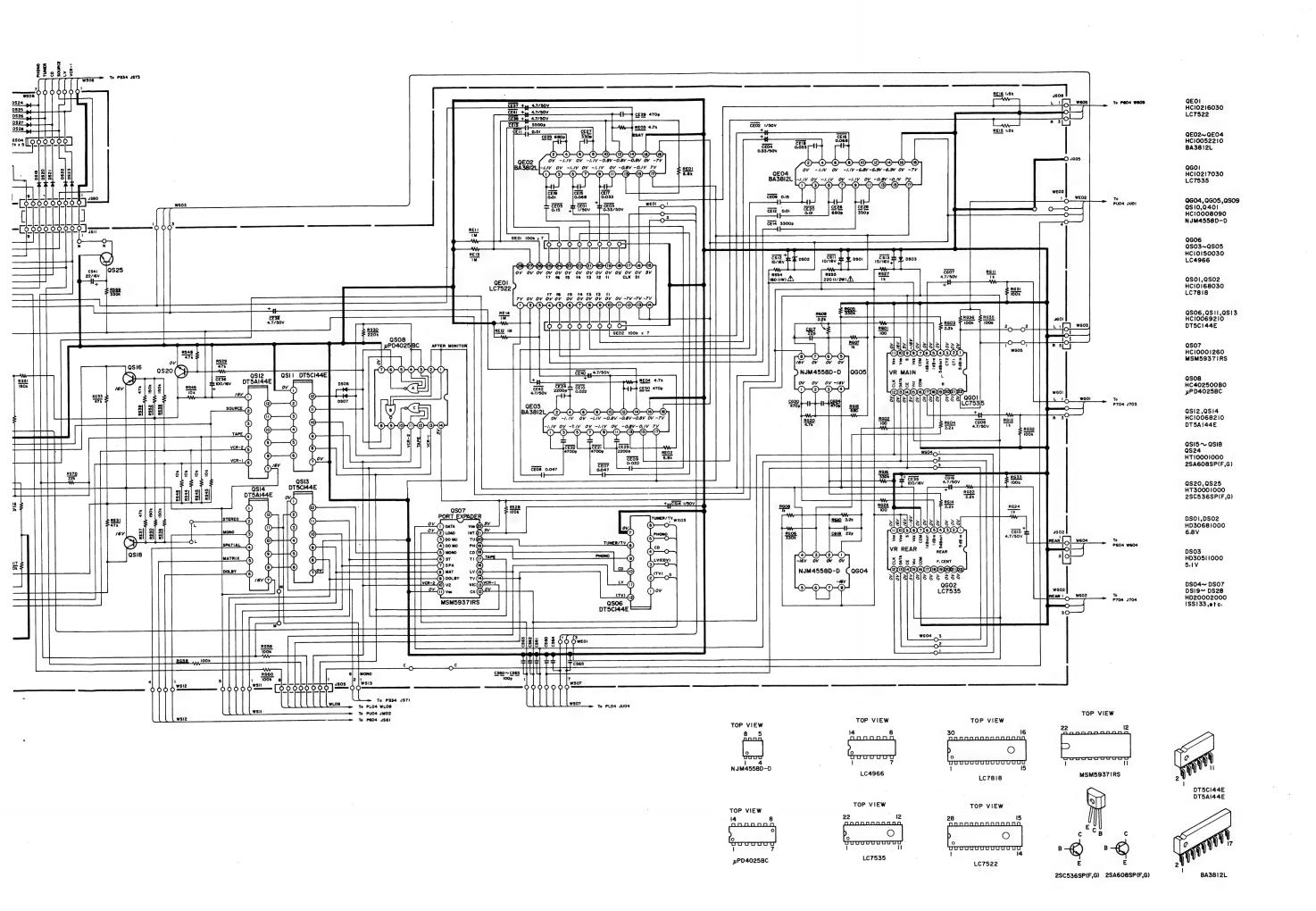




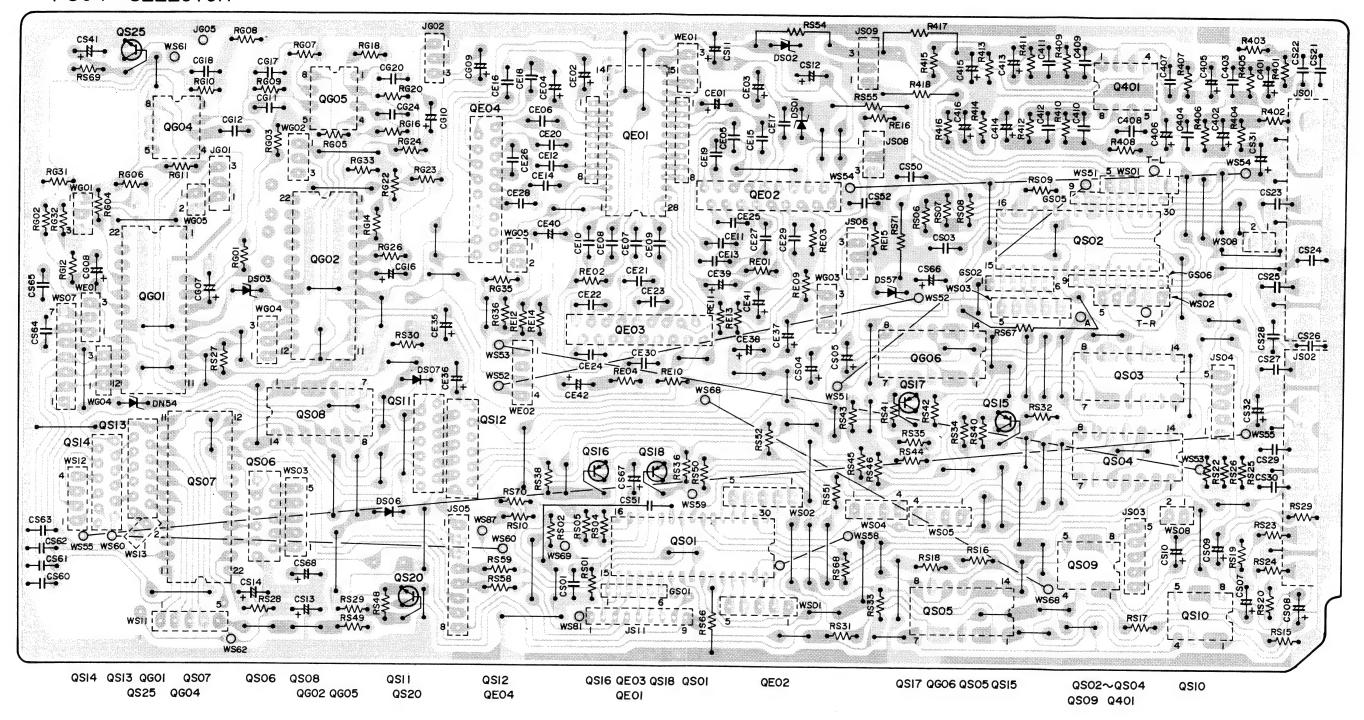


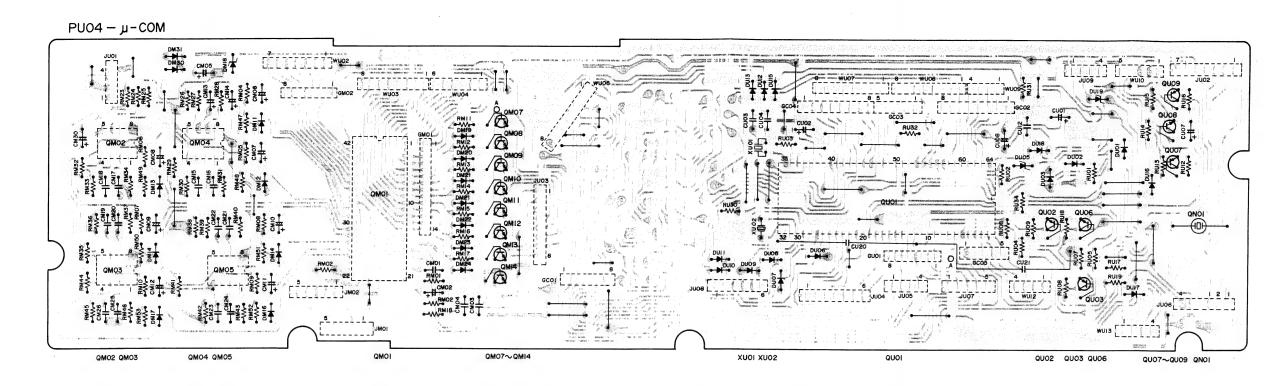
P734 – TR DOLBY

MZ 2157

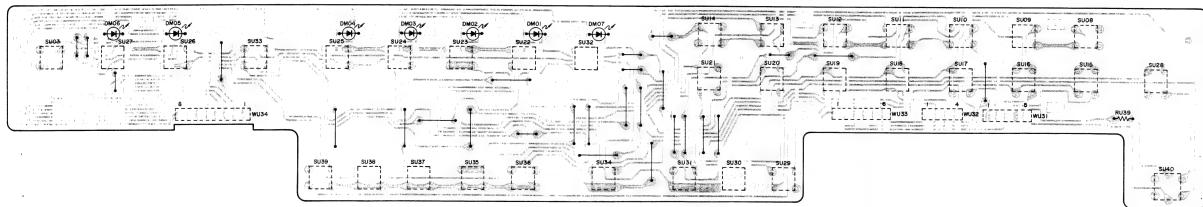


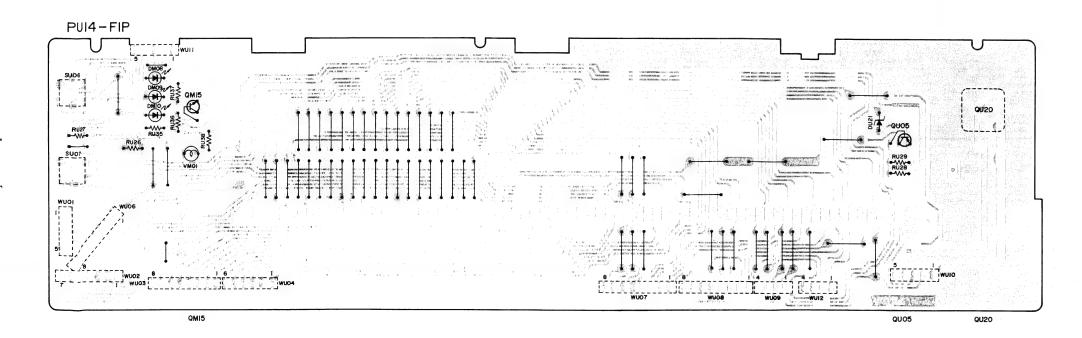
PS04 - SELECTOR

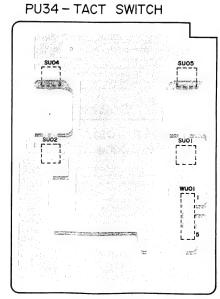


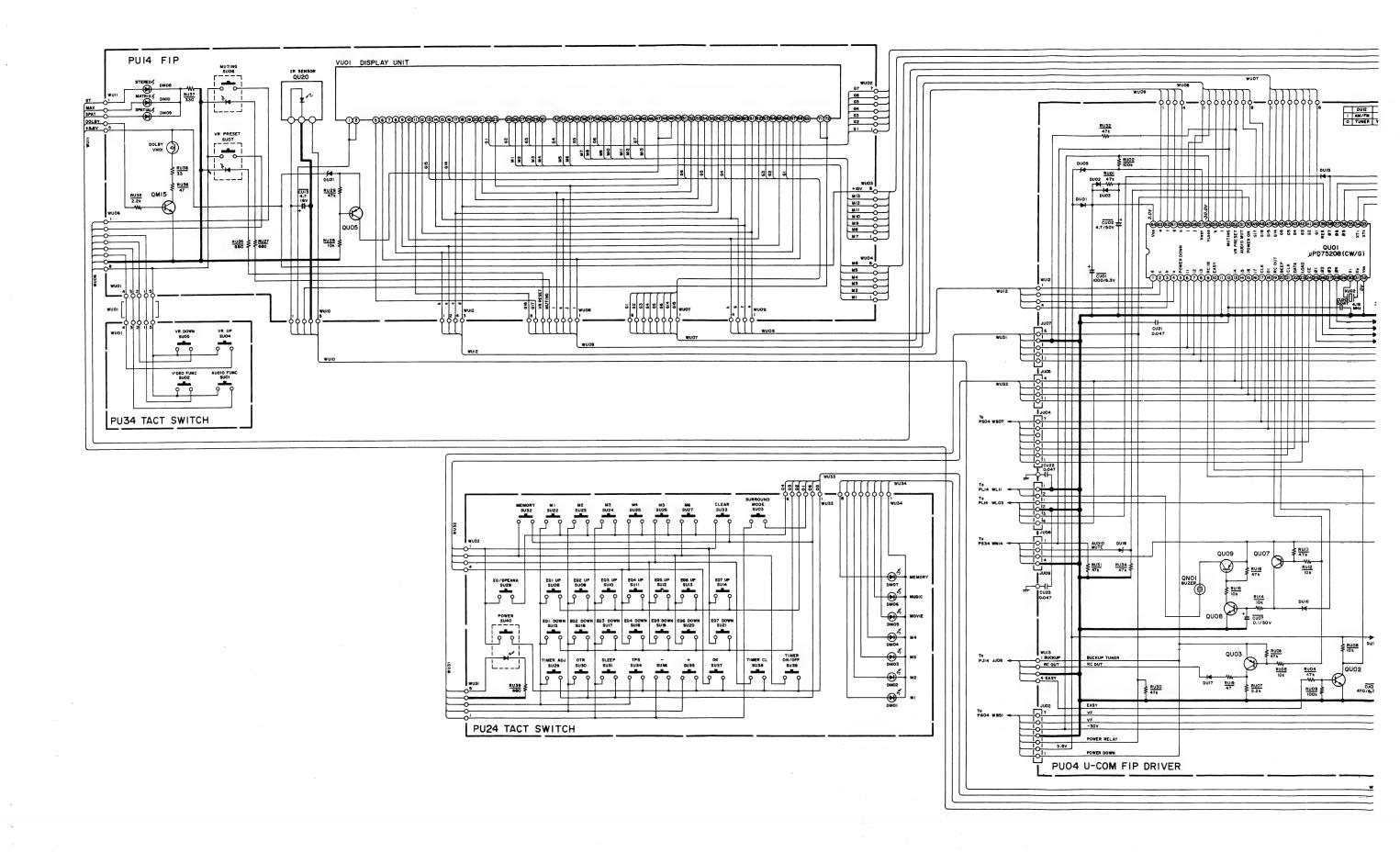


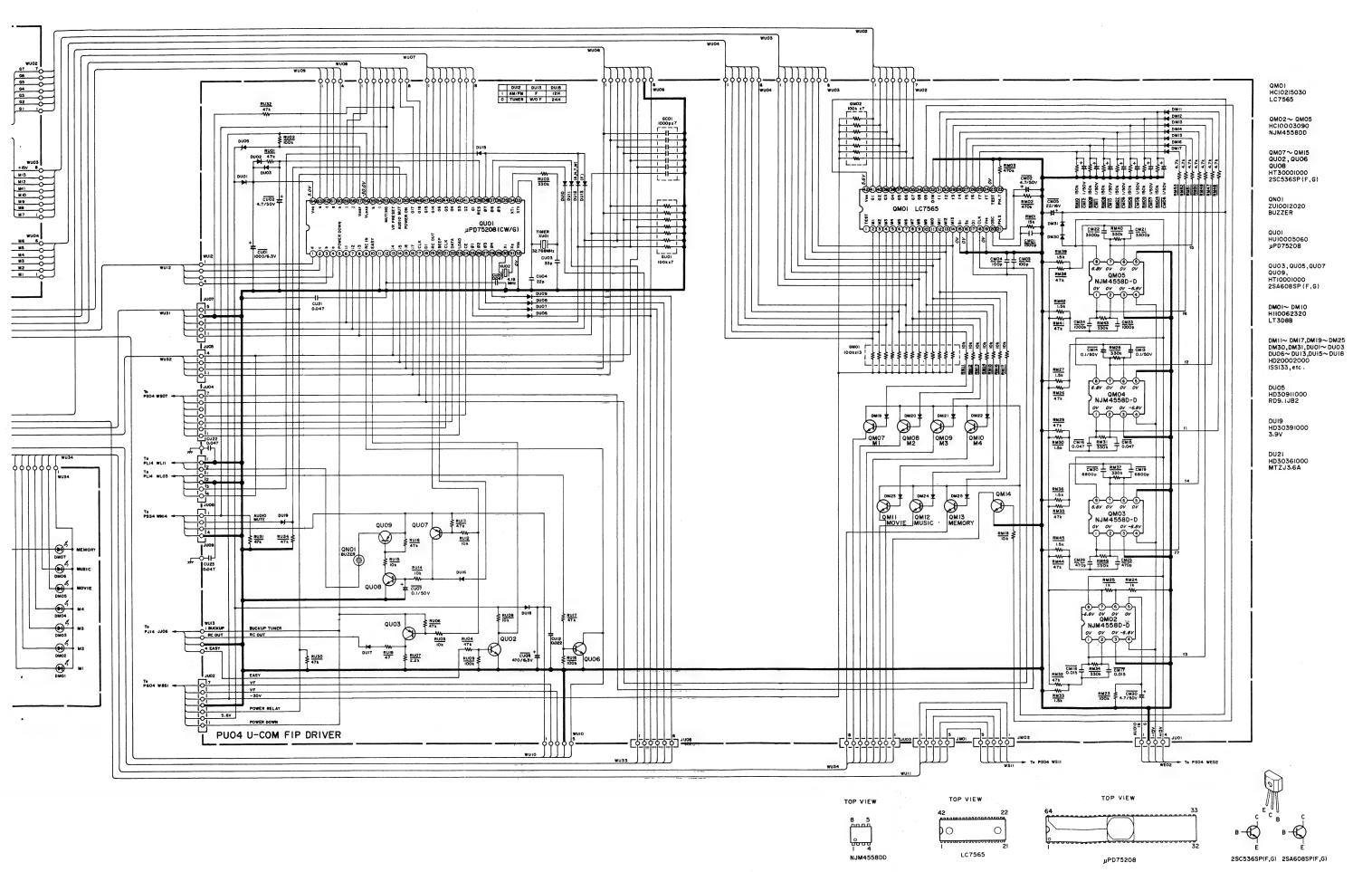












ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR R***: (1) GD05 --- 140, Carbon film fixed resistor, ±5%, 1/4W R***: (2) GD05 --- 160, Carbon film fixed resistor, ±5%, 1/6W

① - Resistance value

Examples · ①

Please distinguish 1/4W from 1/6W by the shape of parts (Note) used actually.

C***: CERAMIC CAP.

(1) DD1 ;---370, Ceramic condenser Disc type Temp. coeff. P350 ~ N1000, 50V <u>0</u>2

> - Capacity value - Tolerance

Examples

Tolerance (Capacity deviation) ±0.25pF...0

±0.5pF...1 ±5%...5

* Tolerance of COMMON PARTS handled here are as follows:

0.5pF ~ 5pF...±0.25pF

6pF ~ 10pF...±0.5pF 12pF ~ 560pF . . . ±5%

 ① Capacity value
 0.5pF...005
 3pF...030
 100pF...101

 1pF...010
 10pF...100
 220pF...221

 1.5pF...015
 47pF...470
 560pF...561

C***: CERAMIC CAP.

(1) DK16---300, High dielectric constant ceramic condenser Disc type Temp. chara. 2B4, 50V

Capacity value

Example

② Capacity value 100pF...101 1000pF...102 10000pF...103 470pF...471 2200pF...222

C***: ELECTROLY CAP. (幸), FILM CAP. (幸) (1) EA-----10, Electrolytic condenser

One-way lead type, Tolerance ±20% 1 2

Dielectric strength Capacity value

Examples

① Capacity value
0.1μF...104 4.7μF...475 100μF...107
0.33μF...334 10μF...106 330μF...337
1μF...105 22μF...226 1100μF...108
2200μF...228 2200µF...228

① Working voltage 6.3V...006 25V...025 10V...010 35V...035 16V...016 50V...050

(2) DF15 --- 350, Plastic film condenser One-way type, Mylar ±5% 50V 1

Capacity value

Examples

0.015μF......153

5. ELECTRICAL PARTS LIST

CL35	4822 122 40305 4822 280 70219 4822 280 70331 4822 266 30305 4822 266 30306	PA14-RELAY CIRCUIT BOAL Ceramic Cap. 0.01µF 4 Relay [N, W, A] Relay [E] PJ14-CONNECTOR	RD 00∨
JJ01	4822 280 70331 4822 266 30305	Relay [E]	
JJ02 CL33 CL35		PJ14-CONNECTOR	
JJ02 CL33 CL35		CIRCUIT BOARD	
CL35	7022 200 30300	Terminal, 10P Terminal, 13P	
	4822 122 40306 4822 122 40617 4822 122 40617	Ceramic Cap. 0.047µF +80% - Ceramic Cap. 0.1µF +80% - Ceramic Cap. 0.1µF +80% -	-20%
		PL04-VIDEO AMP CIRCUIT BOARD	
CL04 CL07	4822 122 40297 4822 122 40297	PL04-CAPACITOR Ceramic 2pF ±0.25pF Ceramic 2pF ±0.25pF	
CL10	4822 122 40297	Ceramic 2pF ±0.25pF	
DL01	4822 130 33305	PL04-SEMICONDUCTORS Diode 1SS133, etc.	
DL02 DL03	4822 130 33305 4822 130 33305	Diode	
DL04 DL05	4822 130 33305 4822 130 33305	Diode 1SS133, etc. Diode 1SS133, etc.	
DL06 DL07	4822 130 33305 4822 130 33305	Diode 1SS133, etc. Diode 1SS133, etc.	
DL09 DL10	4822 130 33305 4822 130 33305 4822 130 33305	Diode 1SS133, etc. Diode 1SS133, etc.	
	4822 209 83067 4822 209 83067	IC LC4066B	
QL02 QL03	4822 209 83832	IC LC4001B	
QL04 QL05	4822 209 71781	IC TC9135P	
QL08	4822 130 42298	Transistor 2SC536SP(F, G),	etc.
QL09 { QL12	4822 130 42715	Transistor 2SA608SP(F, G)	, etc.
QL13 }	4822 130 42298	Transistor 2SC536SP(F, G),	etc.
QL22 QL23	4822 130 42715	Transistor 2SA608SP(F, G)	
QL24 QL25	4822 130 42715 4822 130 42715	Transistor 2SA608SP(F, G) Transistor 2SA608SP(F, G)	
		PL14-PIN JACK/SW. CIRCUIT BOARD	
QL26	4822 130 42298	PL14-SEMICONDUCTORS Transistor 2SC536SP(F, G),	ato
QL26 QL27 QL28	4822 130 42298 4822 130 42715 4822 130 42298	Transistor 2SC536SP(F, G), Transistor 2SC536SP(F, G), Transistor 2SC536SP(F, G),	etc.
JL01	4822 266 30301	PL14-MISCELLANEOUS Terminal, 2P; RCA	
JL02 JL03 JL04	4822 266 30302 4822 266 30304 4822 266 30236	Terminal, 3P; RCA Terminal, 6P; RCA Terminal, 2P; RCA	
SL01 SL02	4822 277 21146 4822 277 21146	Slide Switch Slide Switch	
SL02 SL03 SL04	4822 277 21146 4822 277 21146 4822 277 21146	Slide Switch Slide Switch	

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.
		PL24-R.G.B. CONNECTOR			PS34-REC SELECTOR CIRCUIT BOARD	DM11	
QL29	4822 130 42298	CIRCUIT BOARD Transistor 2SC536SP(F, G), etc.	RS91	4822 100 20614	Bariable Resistor 100KΩ(B)	} DM17	4822 130 33305
JL20 JL21	4822 266 30307 4822 266 30307	Terminal, 21P; RGB Terminal, 21P; RGB	SS71 SS72	4822 276 20458 4822 273 70114	Push Switch, Surround Rotary Switch, Speaker	DM19	4822 130 33305
		2004 051 5050			PS44-SPEAKER SW. CIRCUIT BOARD	DM25 DM30 DM31	4822 130 33305 4822 130 33305
		PS04-SELECTOR CIRCUIT BOARD	Δ RS83 Δ RS84	4822 111 90724 4822 111 90724	Resistor 330Ω $\pm 5\%$ ½W Resistor 330Ω $\pm 5\%$ ½W	DU01	4822 130 33305
		PS04-CAPACITORS		4822 111 90724	Resistor 330Ω ±5% ½W	DU02 DU03	4822 130 33305 4822 130 33305
CS50 CS51	4822 122 32486 4822 122 32486	Ceramic $0.01\mu\text{F} +80\% -20\%$ Ceramic $0.01\mu\text{F} +80\% -20\%$	JS81 JS82	4822 267 30834 4822 267 30834	Jack, Headphone Jack, Headphone	DU05 DU06 }	4822 130 80319 4822 130 33305
CS52	4822 122 40306	Ceramic 0.047μF +80% –20% PS04-RESISTORS	SS81	4822 276 20459	Push Switch, Speaker	DU12 DU15	4022 130 33303
GE01 GE02	4822 111 91398 4822 111 91398	100K Ω x7 Composite 100K Ω x7 Composite			PS84-FUNCTION-1	} DU18	4822 130 33305
GS01 GS02	4822 111 91401 4822 111 91401	22K Ω x5 Composite 22K Ω x5 Composite	GS04	4822 111 91401	CIRCUIT BOARD Resistor Composite 22ΚΩx5	DU19	4822 130 80132
GS05 GS06	4822 111 91513 4822 111 91513	100K Ω x8 Composite 100K Ω x8 Composite	DS19			QM01 QM02	4822 209 71782 4822 209 80401
 ∆ RS54	4822 116 60337	150Ω ±5% 1W	D\$28	4822 130 33305	Diode 1SS133, etc.	QM03 QM04	4822 209 80401 4822 209 80401
⚠ RS55 ⚠ RS71	4822 116 52849 4822 116 52849	220Ω ±5% ½W 220Ω ±5% ½W	QS24	4822 130 42715	Transistor 2SA608SP(F, G), etc.	QM05 QM07	4822 209 80401 4822 130 42298
⚠ R417 ⚠ R418	4822 116 52849 4822 116 52849	220Ω ±5% ½W 220Ω ±5% ½W	QS25	4822 130 42298	Transistor 2SC536SP(F, G), etc.	QM14	4022 130 42298
DS01	4822 130 80318	PS04-SEMICONDUCTORS Zener RD6.8J			PT04-SPEAKER TERMINAL CIRCUIT BOARD	QN01	4822 280 10191
DS02 DS03	4822 130 80318 4822 130 80317	Zener RD6.8J Zener RD5.1J	C741	4822 122 32486	Ceramic Cap. 0.01µF +80% -20%	QU01 QU02	4822 209 71787 4822 130 42298
DS06 DS07	4822 130 33305 4822 130 33305	Diode 1SS133 Diode 1SS133	C745		[N]	QU03	4822 130 42715 4822 130 42298
DS57	4822 130 33303	Zener RD6.2J	C747	4822 122 32486	Ceramic Cap. 0.01µF +80% -20% [N]	QU07 QU08	4822 130 42715 4822 130 42298
QE01 QE02	4822 209 71783 4822 209 83338	IC LÇ7522 IC BA3812L	C748	4822 122 32486	Ceramic Cap. 0.01µF +80% -20% [N]	QU09	4822 130 42715
QE03 QE04	4822 209 83338 4822 209 83338	IC BA3812L IC BA3812L	JW01	4822 267 20233	Terminal, 8P; Speaker	JU01	4822 265 10105
QG01	4822 209 71784	IC LC7535	JW02	4822 266 30308	Terminal, 4P; Speaker	JU02 JU03	4822 265 10064 4822 265 10059
QG02 QG04	4822 209 71784 4822 209 83631	IC LC7535 IC NJM4558D-D			PU04-U-COM FL DRIVER	JU04 JU05	4822 265 10064 4822 265 10105
QG05 QG06	4822 209 83631 4822 209 83804	IC NJM4558D-D IC LC4966		·	CIRCUIT BOARD	JU06 JU07	4822 265 10063 4822 265 10061
QS01	4822 209 83315	IC LC7818	CU03	4822 122 32917	PU04-CAPACITORS Ceramic 33pF ±5%	JU08	4822 265 10063 4822 265 10105
QS02 QS03	4822 209 83315	IC LC7818	CU04 CU12	4822 122 32143 4822 122 40491	Ceramic 22pF ±5% Ceramic 0.022μF +80% –20%	JU10 JU13	4822 265 10105 4822 265 10105
QS04	4822 209 83804 4822 209 83804	IC LC4966 IC LC4966	CU20	4822 122 40306	Ceramic 0.047µF +80% -20%	3013	4822 205 10105
QS05	4822 209 83804	IC LC4966	CU21 CU22	4822 122 40306 4822 122 40306	Ceramic 0.047μF +80% –20% Ceramic 0.047μF +80% –20%	XU01 XU02	4822 242 71775 4822 242 72194
QS06 QS07	4822 209 71779 4822 209 83594	IC DT5C144E IC MSM59371RS	CU23	4822 122 40306	Ceramic 0.047µF +80% -20%	1 ^002	4022 242 72154
QS08	4822 209 83836	IC μPD4025BC			PU04-RESISTORS		
QS09 QS10	4822 209 83631 4822 209 83631	IC NJM4558D-D IC NJM4558D-D	GC01	4822 111 91393	1000Px8 C.R. Composite		
QS11 QS12	4822 209 71779 4822 209 71778	IC DT5C144E IC DT5A144E	GM01 GM02	4822 111 91397 4822 111 91398	100K Ω x13 Composite 100K Ω x7 Composite	DM08 DM09	4822 130 80326 4822 130 80326
QS13	4822 209 71779	IC DT5C144E	GU01	4822 111 91398	100KΩx7 Composite	DM10	4822 130 80326
QS14 QS15	4822 209 71778 4822 130 42715	Transistor 2SA608SP(F, G), etc.	3001	7022 111 31338	1001/2571 Composite	DU21	4822 130 80316
QS16 QS17	4822 130 42715 4822 130 42715	Transistor 2SA608SP(F, G), etc. Transistor 2SA608SP(F, G), etc.				QM15	4822 130 43299
QS18 QS20	4822 130 42715 4822 130 42298	Transistor 2SA608SP(F, G), etc. Transistor 2SC536SP(F, G), etc.				QU05	4822 130 42715
Q401	4822 209 83631	IC NJM4558D-D				.QU20	4822 130 10009
		PS04-MISCELLANEOUS					
JS01 JS02	4822 265 30457 4822 265 30457	Terminal, 6P; RCA Terminal, 6P; RCA					
	L		L				

IPTION	REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	1	DESCRIPTION
NECTOR) ;6SP(F, G), etc.	RS91	4822 100 20614	PS34-REC SELECTOR CIRCUIT BOARD Bariable Resistor 100K $\Omega(B)$	DM11 { DM17	4822 130 33305	PU04-SEMICONDUCTORS Diode 1SS133, etc.	SU06 SU07	4822 276 11656 4822 276 11656	PU14-MISCELLANEOUS Push Switch Push Switch	D861 D864 D865 D866	4822 130 33948 4822 130 33305 4822 130 33305 4822 130 80091	Zener Diode Diode Zener	RD5.6J 1SS133, etc. 1SS133, etc. RD12J
3B 3B	SS71 SS72	4822 276 20458 4822 273 70114	Push Switch, Surround Rotary Switch, Speaker PS44-SPEAKER SW.	DM19	4822 130 33305 4822 130 33305	Diode 1SS133, etc. Diode 1SS133, etc.	VM01 VU01 WU01	4822 134 40853 4822 130 90435 4822 323 10159	Lamp 12V Display Unit FIP18BMW24 Jumper Lead, 5P	QF01 QF02	4822 130 33305 4822 209 83631 4822 209 83631	Diode IC IC	1SS133, etc. NJM4558D-D NJM4558D-D
)	ΔRS83 ΔRS84	4822 111 90724 4822 111 90724	CIRCUIT BOARD Resistor 330Ω ±5% ½W Resistor 330Ω ±5% ½W	DM31	4822 130 33305 4822 130 33305	Diode 1SS133, etc. Diode 1SS133, etc.	WU02 WU04 WU07	4822 323 10117 4822 323 10169 4822 323 10183	Jumper Lead, 7P Jumper Lead, 6P Jumper Lead, 8P	QF03 QH01	4822 209 83631 4822 209 83631	IC IC	NJM4558D-D NJM4558D-D
3S:F +80% -20%	∆RS85	4822 111 90724 4822 267 30834 4822 267 30834	Resistor 330Ω ±5% ½W Jack, Headphone Jack, Headphone	DU02 DU03 DU05 DU06	4822 130 33305 4822 130 33305 4822 130 80319	Diode	WU08 WU10 WU11 WU12	4822 323 10183 4822 323 10159 4822 323 10159 4822 323 10111	Jumper Lead, 8P Jumper Lead, 5P Jumper Lead, 5P Jumper Lead, 4P	QH02 QS51 QS52	4822 209 83631 4822 209 83804 4822 209 83804	IC IC IC	NJM4558D-D LC4966 LC4966
:F +80% -20% :F' +80% -20%	JS82 SS81	4822 276 20459	Push Switch, Speaker	DU12	4822 130 33305	Diode 1SS133, etc.	W012	4022 323 10111	PU24-TACT SWITCH	QS53 QS54	4822 130 42715 4822 130 42298	Transistor Transistor	2SA608SP(F, G), etc. 2SC536SP(F, G), etc.
Composite Composite Composite Composite	GS04	4822 111 91401	PS84-FUNCTION-1 CIRCUIT BOARD Resistor Composite 22KΩx5	DU18	4822 130 33305 4822 130 80132	Diode 1SS133, etc. Zener RD3.9J			PU24-SEMICONDUCTORS	Q601 Q602 Q603 Q604	4822 209 83631 4822 209 83631 4822 209 82826 4822 209 71777	IC IC IC	NJM4558D-D NJM4558D-D TA7629P MN3007
Composite Composite	DS19	4822 130 33305	Diode 1SS133, etc.	QM01 QM02 QM03 QM04	4822 209 71782 4822 209 80401 4822 209 80401 4822 209 80401	IC LC7565 IC NJM4558D-D IC NJM4558D-D IC NJM4558D-D	DM01	4822 130 80326	L.E.D. LT3D8B	Q605 Q852 Q853	4822 209 81763 4822 130 43299 4822 130 42298	Transistor Transistor	MN3101 2SC2910(R, S) 2SC536SP(F, G), etc.
1W ½W ½W ½W	DS28 QS24 QS25	4822 130 42715 4822 130 42298	Transistor 2SA608SP(F, G), etc. Transistor 2SC536SP(F, G), etc.	QM05 QM07 }	4822 209 80401 4822 130 42298	IC NJM4558D-D Transistor 2SC536SP(F, G), etc.	2008 2003	4822 276 11559	PU24-MISCELLANEOUS Push Switch, Tact	Q854	4822 130 42715	Transistor P704-POWE	2SA608SP(F, G), etc.
½W UCTORS			PT04-SPEAKER TERMINAL CIRCUIT BOARD	QM14 QN01	4822 280 10191	Elect Buzzer	SU39 SU40	4822 276 11559 4822 276 11656	Push Switch, Tact Push Switch, Tact REDLED	CN04		P704-CAPA	
i.8J i.8J i.1J I33	C741	4822 122 32486	Ceramic Cap. 0.01µF +80% -20% [N]	QU01 QU02 QU03	4822 209 71787 4822 130 42298 4822 130 42715	Microprocessor µPD75208 Transistor 2SC536SP(F, G) Transistor 2SA608SP(F, G)			PU34-TACT SWITCH CIRCUIT BOARD		4822 122 32486	Ceramic	0.01μF +80% -20%
133 i.2J 522	C745 C747 C748	4822 122 32486 4822 122 32486	Ceramic Cap. 0.01µF +80% -20% [N] Ceramic Cap. 0.01µF +80% -20%	QU06 QU07 QU08 QU09	4822 130 42298 4822 130 42715 4822 130 42298 4822 130 42715	Transistor 2SC536SP(F, G) Transistor 2SA608SP(F, G) Transistor 2SC536SP(F, G) Transistor 2SA608SP(F, G)	SU01 SU02 SU04 SU05	4822 276 11559 4822 276 11559 4822 276 11559 4822 276 11559	Push Switch, Tact	C715 C716 C735	4822 124 41312 4822 124 41312 4822 124 41312	Elect Elect Elect	23µF 63V 23µF 63V 23µF 63V
812L 812L 812L	JW01 JW02	4822 267 20233 4822 266 30308	[N] Terminal, 8P; Speaker Terminal, 4P; Speaker	JU01 JU02	4822 265 10105 4822 265 10064	PU04-MISCELLANEOUS Jack, 4P Jack, 6P			P604-DOLBY SURROUND CIRCUIT BOARD	R711 R712 A R715	4822 100 20524 4822 100 20524 4822 116 60314	P704-RESIS 4.7ΚΩ, Τ 4.7ΚΩ, Τ 10Ω	rimming
535 535 4558D-D 4558D-D 966			PU04-U-COM FL DRIVER CIRCUIT BOARD PU04-CAPACITORS	JU03 JU04 JU05 JU06 JU07 JU08	4822 265 10059 4822 265 10064 4822 265 10105 4822 265 10063 4822 265 10061 4822 265 10063	Jack, 7P Jack, 6P	C851 C852 C858 C859	4822 122 32486 4822 122 32486 4822 122 40306 4822 122 40306	P604-CAPACITORS Ceramic 0.01µF +80% -20% Ceramic 0.01µF +80% -20% Ceramic 0.047µF +80% -20% Ceramic 0.047µF +80% -20%	ΔR716 ΔR719 ΔR720 R731 ΔR735 ΔR739	4822 116 60314 4822 116 60314 4822 116 60314 4822 100 20524 4822 116 60314 4822 116 60314	10Ω 10Ω 10Ω 10Ω 4.7ΚΩ, Τ 10Ω 10Ω	±5% ¼W, Fusible ±5% ¼W, Fusible ±5% ¼W, Fusible
818 818 966 966 966 C144E	CU03 CU04 CU12 CU20 CU21 CU22	4822 122 32917 4822 122 32143 4822 122 40491 4822 122 40306 4822 122 40306 4822 122 40306 4822 122 40306	Ceramic 33pF ±5% Ceramic 22pF ±5% Ceramic 0.022μF +80% -20% Ceramic 0.047μF +80% -20% Ceramic 0.047μF +80% -20% Ceramic 0.047μF +80% -20% Ceramic 0.047μF +80% -20%	JU09 JU10 JU13 XU01 XU02	4822 265 10105 4822 265 10105 4822 265 10105 4822 242 71775 4822 242 72194	Jack, 4P Jack, 4P Jack, 4P Crystal 32.768KHz Ceramic Bibrator 4.19MHz	R630 A R851 A R852 A R853	4822 100 11372 4822 116 60268 4822 111 90744 4822 116 60491	P604-RESISTORS 47 K Ω , Trimming 680 Ω ± 5 % 2 W 100 Ω ± 5 % 3 W, Fusible 330 Ω ± 5 % 3 W	DN51 DN52 DN55	4822 130 33305 4822 130 33305 4822 130 33305	P704-SEMIO Diode Diode Diode	1SS133, etc. 1SS133, etc. 1SS133, etc. 1SS133, etc.
159371RS 4025BC 4558D-D 4558D-D	GC01	4822 111 91393	PU04-RESISTORS 1000Px8 C.R. Composite			PU14-F.I.P. CIRCUIT BOARD	DS51	4822 130 33305	P604-SEMICONDUCTORS Diode 1SS133, etc.	QN51	4822 130 43818 4822 130 43818	Transistor Transistor	2SC2878(A) 2SC2878(A)
C144E A144E	GM01 GM02	4822 111 91397 4822 111 91398	100KΩx13 Composite 100KΩx7 Composite	DM08 DM09	4822 130 80326 4822 130 80326	PU14-SEMICONDUCTORS L.E.D. LT3D8B L.E.D. LT3D8B	D\$56 D601	4822 130 33305	Diode 1SS133, etc.	QN58 Q701	4822 130 43818 4822 209 83779	Transistor IC	2SC2878(A) μPC1270H
C144E A144E 608SP(F, G), etc. 608SP(F, G), etc.	GU01	4822 111 91398	100KΩ×7 Composite	DM10 DU21	4822 130 80326 4822 130 80316	L.E.D. LT3D8B Zener MTZJ3.6A	D602	4822 130 33305 4822 130 32508 4822 130 32508	Diode 1SS133, etc. Diode DSF10C, etc. Diode DSF10C, etc. [N, W, A]	Q702 Q721	4822 209 83779 4822 209 83779	IC IC	μPC1270H μPC1270H
608SP(F, G), etc. 608SP(F, G), etc. 536SP(F, G), etc.				ΩM15 QU05 QU20	4822 130 43299 4822 130 42715 4822 130 10009	Transistor 2SC2910(R, S) Transistor 2SA608SP(F, G), etc. Photo Unit	△D853 △D854 △D855 △D856	4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508	Diode				
4558D-D VEOUS							△D857 △D858 D859 D860	4822 130 32508 4822 130 32508 4822 130 32508	Diode DSF10C, etc. Diode DSF10C, etc. [N, W, A] Diode DSF10C, etc.				
1							D000	4822 130 32508	Diode DSF10C, etc.		·		

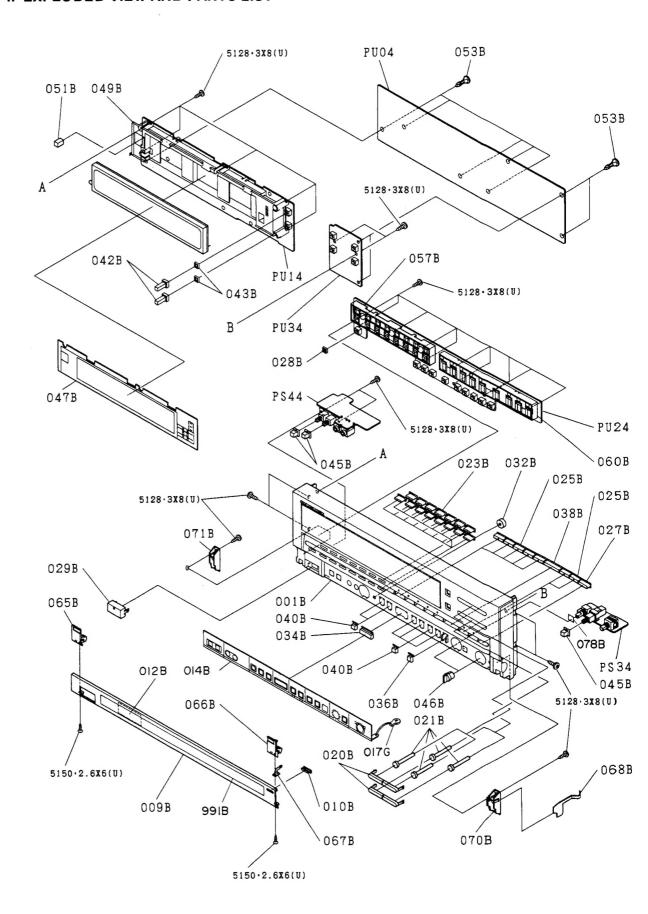
REF. DESIG.	PART NO.	D	ESCRIP	TION
Q703	4822 130 60117	P714-TRAN CIRCUIT B Transistor	OARD	
4705	4022 100 00117	Transacor	2000-	13(17
Q704	4822 130 60117	P724-TRAN CIRCUIT BO Transistor	OARD	
Q723	4822 130 60117	P734-TRAN CIRCUIT BO Transistor	OARD	
		P754-POWE CIRCUIT BO		SUPPLY
		P754-CAPA		
C801 C802 ∆ C807	4822 124 21861 4822 124 21861 4822 122 30043	Elect 1	0000µF 0000µF 0.01µF	
∆RN07	4822 116 60314	P754-RESIS 10Ω	TORS ±5%	¼W, Fusible
ΔR751 ΔR752 ΔR753 ΔR754 ΔR755	4822 116 52332 4822 116 52332 4822 116 52332 4822 116 52332 4822 111 91402 4822 111 91402	10Ω 10Ω 10Ω 10Ω 0.1Ω×2	±5% ±5% ±5% ±5%	½W ½W ½W ½W 3W
ΔR756 ΔR757 ΔR758 ΔR759 ΔR760	4822 111 91402 4822 116 52858 4822 116 52858 4822 111 90726 4822 111 90726	0.1Ω×2 4.7Ω 4.7Ω 10Ω 10Ω	±5% ±5% ±5% ±5%	%W %W %W 2W 2W
ΔR771 ΔR773 ΔR775 ΔR777 ΔR777	4822 116 52332 4822 116 52332 4822 111 91402 4822 116 52858 4822 111 90726	10Ω 10Ω 0.1Ω×2 4.7Ω 10Ω	±5% ±5% ±5% ±5%	½W ½W 3W ½W 2W
ΔR802 ΔR803 ΔR804	4822 111 20384 4822 116 60346 4822 116 60343	6.8Ω 2.2KΩ 1.8KΩ	±5% ±5% ±5%	½W, Fusible 1W 1W
DN01 DN03 DN04 DN05 DN07	4822 130 32508 4822 130 33305 4822 130 33305 4822 130 33305 4822 130 33305	P754-SEMIC Diode Diode Diode Diode Diode	DSF 10 1SS 133 1SS 133 1SS 133 1SS 133	C, etc. 3, etc. 3, etc. 3, etc.
△ D751 △ D752 △ D753 △ D754 △ D771 △ D773	4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508	Diode Diode Diode Diode Diode Diode	DSF10 DSF10 DSF10 DSF10	0C, etc. 0C, etc. 0C, etc. 0C, etc. 0C, etc. 0C, etc.
△ D801 △ D802 △ D803 △ D804 D805 D806 D807 D808	4822 130 33074 4822 130 33074 4822 130 33074 4822 130 33074 4822 130 33305 4822 130 33305 4822 130 80498 4822 130 80498	Diode Diode Diode Diode Diode Diode Zener Zener	30DF- 30DF- 30DF- 30DF- 1SS13 1SS13 RD16 RD16	2 2 2 3, etc. 3, etc.

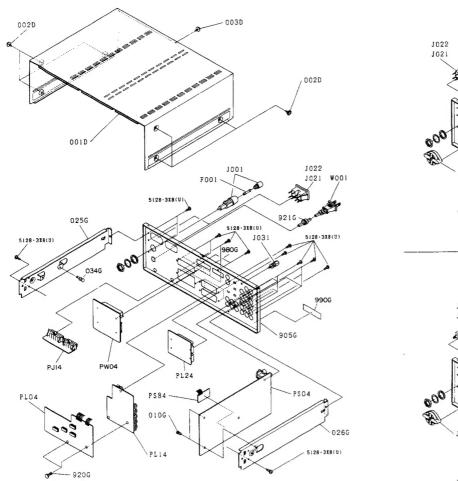
REF. DESIG.	PART NO.	DESCRIPTION
QN01 QN02 QN03 QN04 QN05 QN07 QN08 QN09	4822 130 42715 4822 130 42052 4822 130 42298 4822 130 42298 4822 130 42591 4822 130 42052 4822 130 42052 4822 130 42052	Transistor 2SA608SP(F, G) Transistor 2SC2785(FF, EF) Transistor 2SC2458, etc. Transistor 2SC2458, etc. Transistor 2SA1175(FF, EF) Transistor 2SC2785(FF, EF) Transistor 2SC2785(FF, EF) Transistor 2SC2785(FF, EF)
Q751 Q752 Q753 Q754 Q771 Q773	4822 130 60698 4822 130 60698 4822 130 60695 4822 130 60695 4822 130 60698 4822 130 60695	Transistor 2SD1714(S, P) Transistor 2SD1714(S, P) Transistor 2SB1159(S, P) Transistor 2SB1159(S, P) Transistor 2SD1714(S, P) Transistor 2SB1159(S, P)
∆ Q801 ∆ Q802	4822 130 42073 4822 130 61364 4822 130 43023 4822 130 61359	Transistor 2SD1265(O,P)[N,W,A] Transistor 2SD1913(Q,R)[E] Transistor 2SA1306(O,Y)[N,W,A] Transistor 2SB1274(Q,R)[E]
L751 L752 L771	4822 157 51739 4822 157 51739 4822 157 51739	P754-MISCELLANEOUS Coil, 1μΗ Coil, 1μΗ Coil, 1μΗ
		P801-REGULATOR CIRCUIT BOARD
∆ Q803	4822 209 83821	IC NJM78M06FA
		P802-REGULATOR CIRCUIT BOARD
∆ Q804	4822 209 72332	IC NJM79M06FA

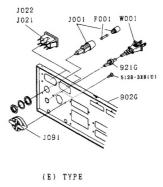
Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

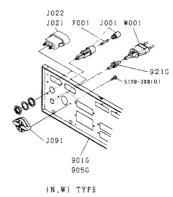
REF. DESIG.	PART NO.	DESCRIPTION
DESIG.		
001B 009B	4822 443 40758 4822 454 11967	Front Panel Assembly Escutcheon, Hinge
010B	4822 412 20998	Knob, Hinge
014B	4822 454 30391	Indicator Assembly
020B	4822 410 25819	Button, Volume
021B	4822 535 71094 4822 410 25821	Pin, Volume Button, EQ
023B 025B	4822 410 25822	Button, Surround
027B	4822 410 25823	Button, Mode
028B	4822 532 51719	Bushing, Power Switch
029B	4822 410 25829	Button K, Power Switch
032B 034B	4822 410 25825 4822 410 25826	Button, Timer Button, Timer Mode
034B	4822 410 25827	Button, Clear
038B	4822 410 25828	Button, EQ Flat
040B	4822 410 25782	Button, Tact
042B 043B	4822 381 10895 4822 532 51719	Lens, Muting Bushing, Muting
045B	4822 410 25783	Button, Push
046B	4822 412 20997	Knob, Volume
051B	4822 466 61642	Spacer
065B 066B	4822 417 10985 4822 417 10986	Hinge, Left Hinge, Right
067B	4822 278 80277	Contactor
068B	4822 278 80281	Contactor
070B	4822 526 50097	Click, Right
071B	4822 526 50096	Click, Left
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4. EXPLODED VIEW AND PARTS LIST



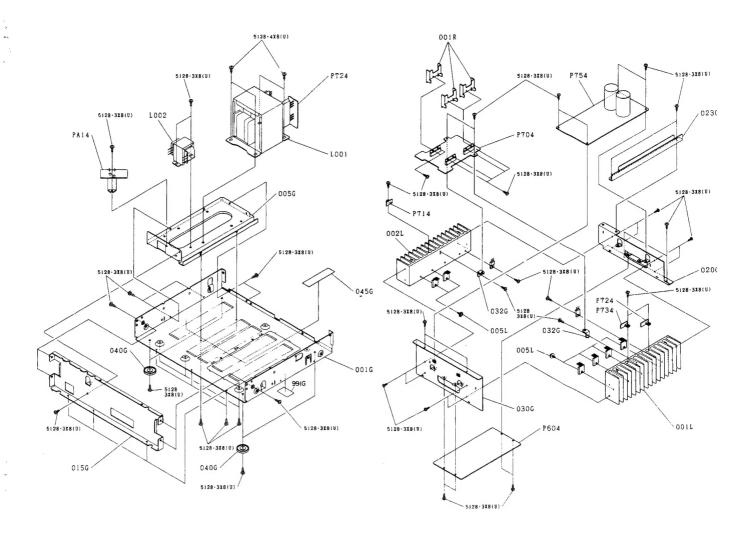






REF. DESIG.	PART NO.	DESCRIPTION
001D 002D 003D Д F001 Д J001 Д J021 Д J022 J031 Д J091	4822 426 51233 4822 502 12355 4822 502 12355 4822 253 30022 4822 256 30233 4822 267 30597 4822 265 10091 4822 267 30597 4822 265 10091 4822 290 40297 4822 272 10236 4822 272 10235	Lid, Top Cover B.T. Screw B3 x 8 B.T. Screw B3 x 8 Fuse T1.25A 250V Jack, Fuse Holder Jack, AC Outlet [N, W, A] Jack, AC Outlet [E] Jack, AC Outlet [E] Terminal, GND Voltage Selector [N, W, A] Voltage Selector [E]

REF. DESIG.	PART NO.	DESCRIPTION
001T Z004 Z006 Z007 Z008 Z009 Z010	4822 736 20153 4822 218 10203 4822 138 10155 4822 321 22384 4822 321 22385 4822 253 30026 4822 265 10092	User Manual Remocon Unit (RMC-73) Battery, SUM-3 Connective Cord, 10P Connective Cord, 13P Fuse [E] Jack, AC Adaptor [E]
	DESIG. 001T 2004 2006 2007 2008 2009	DESIG. PART NO. 001T 4822 736 20153 Z004 4822 218 10203 Z006 4822 138 10155 Z007 4822 321 22384 Z008 4822 321 22385 Z009 4822 253 30026



REF. DESIG.	PART NO.		DESCRIPTION
040G	4822 462 41186	Leg	
			* * * * * * * *

REF. DESIG.	PART NO.	DESCRIPTION
∆ L001	4822 148 60173 4822 148 60175	Power Transformer, Main [N,W,A] Power Transformer, Main [E]
∆L002	4822 148 60166 4822 148 60174	Power Transformer, Sub [N,W,A] Power Transformer, Sub [E]